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PPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/029,414 12/20/2001		12/20/2001	Kent A. Franklin	KCC 4785 (KC# 16,648B)	3743
321	7590	07/06/2004		EXAMINER	
SENNIG	ER POWE	ERS LEAVITT AND	FISCHER, JUSTIN R		
ONE METROPOLITAN SQUARE 16TH FLOOR ST LOUIS, MO 63102				ART UNIT	PAPER NUMBER
				1733	

DATE MAILED: 07/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/029,414	FRANKLIN ET AL.				
Office Action Summary	Examiner	Art Unit				
Ē	Justin R Fischer	1733				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Fallure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Ap	<u>oril 2004</u> .	•				
•	action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 29,30 and 35-43 is/are pending in the 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 29,30 and 35-43 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 20 December 2001 is/a Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		·				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2.5.6.	Paper No(s)/Mail Double No(s)/Mail Double Notice of Informal F	ate Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of a method of applying an elongate member to a substrate in the reply filed on April 21, 2004 is acknowledged.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 29-30 and 35-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heikkila (WO 90/09159) in view of Hermann (US 5,500,075, of record). As best depicted in Figures 1 and 2, Heikkila is directed to a method of forming a diaper comprising applying a pair of elastic band assemblies 4, 5 (elongate member) to a liquid permeable surface layer 1, wherein each of the elastic band assemblies are formed of at least one elastic band (Page 3, Lines 30-35). Furthermore, it is evident from the above noted Figures that the securement paths of the elastic band assemblies are varied along the lateral direction of the garment and additionally, the individual elastic bands are oscillated within the securement paths to define a zigzag orientation. Thus, the securement path itself varies in the lateral direction and the arrangement of the elastic bands within the securement path varies in the lateral direction- this is consistent with the claimed invention. However, Heikkila is completely silent as to the specific method of manufacture, particularly the use of a guide assembly that varies

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laterally to adjust the securement path and the use of a guide that varies laterally in relation to said guide assembly to define a zigzag orientation within said securement path. In any event, one of ordinary skill in the art at the time of the invention would have found it obvious to use a guide assembly and a guide in the method of Heikkila since such a method is commonly used in the arrangement of elastic strands in the manufacture of diapers, as shown for example in Hermann (Figure 15). In the method/apparatus of Hermann, a guide is attached to a guide assembly, wherein said guide is rotatably attached to said guide assembly and thus has the capability of varying the position of the elastic bands within a given securement path. One of ordinary skill in the art at the time of the invention would have recognized that these methods, which are well known and extensively used in the diaper industry, would be applicable in the diaper manufacturing process of Heikkila, it being emphasized that Heikkila is completely silent as to any processing steps regarding the securement path and the zigzag orientation within the securement path.

Regarding claims 30, 39, and 40, it is evident from Figures 1 and 2 of Heikkila that the individual elastic bands have a zigzag or wave pattern within the securement path.

As to claims 35, 36, and 43, the guide assemblies are commonly rotated along an arcuate path in the arrangement of elastic strands, as expressly depicted by Hermann in Figures 8 and 15. Also, the guide assemblies include a positioning arm that supports the guide in a spaced relation from the guide assembly, wherein the movement of the guide assembly along an arcuate path results in the lateral movement

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of the guide, which itself is independently rotatable within the securement path (Hermann describes the guide as being "freely pivotable" about a shaft at the end of a swing arm or positioning arm).

With respect to claims 37 and 38, as noted above, Heikkila suggests that each of the elastic band assemblies is formed of at least one elastic band- as depicted in Figures 1 and 2, 2 elastic bands are included in each elastic band assembly. One of ordinary skill in the art at the time of the invention would have found it obvious to include a second guide in the method of Heikkila since the elastic strands of Heikkila have oscillating patterns that intersect one another. Thus, a suitable means to accommodate the different arrangements of the elastic strands within each assembly would be a second guide- in this instance, the first and second guides would be independently rotatable (with respect to the guide assembly) in order to impart a different arrangement for each elastic strand.

As to claims 41 and 42, as noted above, the guides are independently rotatable such that different wave patterns can be imparted into respective elastic strands.

Absent any conclusive showing of unexpected results, it would have been within the purview of one of ordinary skill in the art at the time of the invention to provide a desired wave pattern for each of the elastic strands. With specific respect to claim 42, Figures 1 and 2 of Heikkila do show a single elastic band assembly in which a first elastic band has a negative wave pattern with respect to a second elastic band (the elastic bands have a crossed or intersecting wave pattern).

Conclusion

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Blenke (US 5,525,175, of record) and Popp (US 6,585,841) disclose a method in which an elastic strand is arranged on a moving substrate, wherein said method includes the use of a guide assembly and a guide, the guide being freely rotatable with respect to the guide assembly.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Justin Fischer

July 1, 2004

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